

**(12) INTERNATIONAL APPLICATION PUBLISHED UNDER
THE PATENT COOPERATION TREATY (PCT)**

(19) World Intellectual Property Organization
International Bureau

[WIPO]

[Bar Code]

(43) International Publication Date

October 6, 2005 (10/06/2005)

(10) International Publication Number

PCT

WO 2005/093693 A2

(51) International Patent Classification⁷:

G09F 9/00

(21) International Application No.:

PCT/EP2005/003106

(22) International Filing Date:

March 23, 2005 (03/23/2005)

(25) Language in which the international application was originally filed:

German

(26) Language in which the international application is published:

German

(30) Priority Data:

10 2004 016 627.7

March 29, 2004 (03/29/2004) DE

(71) Applicant (for all designated states except the U.S.):
GOTTLIEB BINDER GMBH & CO. KG [DE/DE];
Bahnhofstr. 19, 71088 Holzgerlingen (DE).

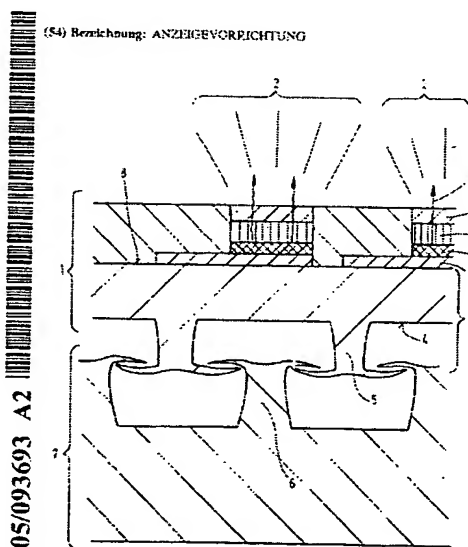
(72) Inventor; and

(75) Inventor/Applicant (U.S. only): **TUMA, Jan [DE/DE];**
Weingartenstrasse 18, 71083 Herrenberg (DE)

(74) Representative: **BARTELS AND PARTNER; Lange Strasse 51,**
70174 Stuttgart (DE).

(81) Designated States (unless indicated otherwise, for each
available type of national protective right): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
[continued on next page]

(54) Title: **DISPLAY DEVICE**



(57) Abstract: The invention relates to a display device (1; 101) comprising a plurality of picture elements (2; 102) for displaying still and moving images, alphanumeric characters or the like. According to the invention, said picture elements can be controlled, either individually or in groups, by means of an electronic control system, and the display device (1; 101) comprises a first flat substrate (3; 103). The invention is characterized in that the first flat substrate (3; 103) comprises fastening elements (5; 104) which project at least in sections, from the first surface (4; 104) thereof, in order to detachably fix the display device (1; 101) in a carrier device (7), by the co-operation of the fastening elements (5; 104) of the first flat substrate (3; 103) with the carrier device (7).

(57) Zusammenfassung: Die Erfindung betrifft eine Anzeigevorrichtung (1; 101) mit einer Vielzahl von Bildpunkten (2; 102) zum Anzeigen von Stand- und Bewegtbildern, alphanumerischen Zeichen oder dergleichen, wobei die Bildpunkte mittels einer Anzeierelektronik einzeln oder gruppenweise ansteuerbar sind, und wobei die Anzeigevorrichtung (1; 101) ein erstes flächiges Substrat (3; 103) aufweist, dadurch gekennzeichnet, dass das erste flächige Substrat (3; 103) auf einer ersten Oberflche (4; 104) mindestens

(Fortsetzung auf der nchsten Seite)

WO 2005/093693 A2

BEST AVAILABLE COPY

CN,CO,CR,CU,CZ,DE,DK,DM,DZ,EC,EE,EG,ES,FI,GB,GE,GM,HR,ID,IL,IN,IS,JP,KE,KG,KP,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NA,NI,NO,NZ,OM,PG,H,PL,PT,RO,RU,SC,SD,SE,SG,SK,SL,SY,TJ,TM,TN,TR,TT,TZ,UA,UG,US,UZ,VC,VN,YU,ZA,ZM,ZW.

- (84) Contracting States (*unless indicated otherwise, for each available type of national protective right*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without International Search Report and renewed for publication according to the contents of the report..

Reference is made for an explanation of the two-letter codes and the other abbreviations to the Guidance Notes on Codes and Abbreviations in the front section of each regular PCT Gazette edition.